ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
**T:** 1-360-577-7222
**F:** 1-360-636-1068
**www.alsglobal.com**

November 12, 2014

**Analytical Report for Service Request No:** K1411946

Brittany Park
Georgia-Pacific Consumer Products LP
92326 Taylorville Road
Clatskanie, OR 97016



**RE: Wauna 4Q FC**

Dear Brittany:

Enclosed are the results of the sample(s) submitted to our laboratory on October 24, 2014. For your reference, these analyses have been assigned our service request number **K1411946**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3375. You may also contact me via email at Janet.Malloch@alsglobal.com.

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**

Janet Malloch
Project Manager

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## Inorganic Data Qualifiers

| | |
|---|---|
| * | The result is an outlier. See case narrative. |
| # | The control limit criteria is not applicable. See case narrative. |
| B | The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards. |
| E | The result is an estimate amount because the value exceeded the instrument calibration range. |
| J | The result is an estimated value. |
| U | The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution. |
| i | The MRL/MDL or LOQ/LOD is elevated due to a matrix interference. |
| X | See case narrative. |
| Q | See case narrative. One or more quality control criteria was outside the limits. |
| H | The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory. |

## Metals Data Qualifiers

| | |
|---|---|
| # | The control limit criteria is not applicable. See case narrative. |
| J | The result is an estimated value. |
| E | The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample. |
| M | The duplicate injection precision was not met. |
| N | The Matrix Spike sample recovery is not within control limits. See case narrative. |
| S | The reported value was determined by the Method of Standard Additions (MSA). |
| U | The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution. |
| W | The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance. |
| i | The MRL/MDL or LOQ/LOD is elevated due to a matrix interference. |
| X | See case narrative. |
| + | The correlation coefficient for the MSA is less than 0.995. |
| Q | See case narrative. One or more quality control criteria was outside the limits. |

## Organic Data Qualifiers

| | |
|---|---|
| * | The result is an outlier. See case narrative. |
| # | The control limit criteria is not applicable. See case narrative. |
| A | A tentatively identified compound, a suspected aldol-condensation product. |
| B | The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards. |
| C | The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data. |
| D | The reported result is from a dilution. |
| E | The result is an estimated value. |
| J | The result is an estimated value. |
| N | The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed. |
| P | The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results. |
| U | The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution. |
| i | The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference. |
| X | See case narrative. |
| Q | See case narrative. One or more quality control criteria was outside the limits. |

## Additional Petroleum Hydrocarbon Specific Qualifiers

| | |
|---|---|
| F | The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard. |
| L | The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard. |
| H | The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard. |
| O | The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard. |
| Y | The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard. |
| Z | The chromatographic fingerprint does not resemble a petroleum product. |

## ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
## State Certifications, Accreditations, and Licenses

| Agency | Web Site | Number |
|---|---|---|
| Alaska DEC UST | http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx | UST-040 |
| Arizona DHS | http://www.azdhs.gov/lab/license/env.htm | AZ0339 |
| Arkansas - DEQ | http://www.adeq.state.ar.us/techsvs/labcert.htm | 88-0637 |
| California DHS (ELAP) | http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx | 2795 |
| DOD ELAP | http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm | L14-51 |
| Florida DOH | http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm | E87412 |
| Hawaii DOH | Not available | - |
| Idaho DHW | http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx | - |
| ISO 17025 | http://www.pjlabs.com/ | L14-50 |
| Louisiana DEQ | http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx | 03016 |
| Maine DHS | Not available | WA01276 |
| Michigan DEQ | http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html | 9949 |
| Minnesota DOH | http://www.health.state.mn.us/accreditation | 053-999-457 |
| Montana DPHHS | http://www.dphhs.mt.gov/publichealth/ | CERT0047 |
| Nevada DEP | http://ndep.nv.gov/bsdw/labservice.htm | WA01276 |
| New Jersey DEP | http://www.nj.gov/dep/oqa/ | WA005 |
| North Carolina DWQ | http://www.dwqlab.org/ | 605 |
| Oklahoma DEQ | http://www.deq.state.ok.us/CSDnew/labcert.htm | 9801 |
| Oregon – DEQ (NELAP) | http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | WA100010 |
| South Carolina DHEC | http://www.scdhec.gov/environment/envserv/ | 61002 |
| Texas CEQ | http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html | T104704427 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C544 |
| Wisconsin DNR | http://dnr.wi.gov/ | 998386840 |
| Wyoming (EPA Region 8) | http://www.epa.gov/region8/water/dwhome/wyomingdi.html | - |
| Kelso Laboratory Website | www.alsglobal.com | NA |

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

**ALS ENVIRONMENTAL**

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request No.:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Received:** | 10/24/14 |
| **Sample Matrix:** | Water | | |

**Case Narrative**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

**Sample Receipt**

Seventeen water samples were received for analysis at ALS Environmental on 10/24/14. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

**Methanol by NCASI Method 94.03**

**Elevated Detection Limits:**
Several samples required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

No other anomalies associated with the analysis of these samples were observed.

**Approved by** Janet Mallorh

KM119446

Columbia Analytical Services, Inc.
1317 South 13th, Kelso, WA 98626
Phone: (360) 577-7222 Fax: (360) 636-1068

**Georgia Pacific Wauna Mill**

Page 1 of 2

Service Request:

**Project Name/Number:** WAUNA 4Q FC
**Report To:** Brittany Park

| Sample I.D. | 24 Hour Composite Start Date | 24 Hour Composite Start time | Grab Sample Date | Grab Sample Time | LAB ID | Matrix | Number of Containers | Analysis Requested: Methanol | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inlet | | | 10/20/14 | 9:40 | | | 2 | X | | | | | | | | |
| Outlet | | | 10/20/14 | 9:25 | | | 2 | X | | | | | | | | |
| Zone 1 | | | 10/20/14 | 9:50 | | | 2 | X | | | | | | | | |
| Zone 2 | | | 10/20/14 | 9:30 | | | 2 | X | | | | | | | | |
| Foul Condensate | | | 10/20/14 | 9:50 | | | 2 | X | | | | | | | | |
| Inlet | | | 10/21/14 | 11:00 | | | 2 | X | | | | | | | | |
| Outlet | | | 10/21/14 | 10:50 | | | 2 | X | | | | | | | | |
| Zone 1 | | | 10/21/14 | 11:10 | | | 2 | X | | | | | | | | |
| Zone 2 | | | 10/21/14 | 10:55 | | | 2 | X | | | | | | | | |
| Foul Condensate | | | 10/21/14 | 11:05 | | | 2 | X | | | | | | | | |

**TAT REQUIREMENTS**
___24 hr __ 48 hr __ 5 day
_X_ Standard (21 days)

**REPORT REQUIREMENTS**
X I. Routine Report

**Comments/Special Instructions:**
NCASI DI/Methanol - 94.03

| RELINQUISHED BY: | RECEIVED BY: | RELINQUISHED BY: | RECEIVED BY: |
|---|---|---|---|
| Signature: | Signature: | Signature: | Signature: Paula Smith |
| Printed Name: Brittany Park | Printed Name: Brittany | Printed Name: Brittany | Printed Name: Paula Smith |
| Firm: Georgia-Pacific | Firm: ALS | Firm: ALS | Firm: ALS |
| Date/Time: 10/23/2014 8:00hrs | Date/Time: 10/24/14 0925 | Date/Time: 10/24/14 1080 | Date/Time: 10/24/14 1030 |

Columbia Analytical Services, Inc.
1317 South 13th, Kelso, WA 98626

**Georgia Pacific Wauna Mill**



Service Request :

Phone: (360) 5677-7222 Fax: (360) 636-1068

**Project Name/Number:** WAUNA 4Q FC
**Report To:** Brittany Park

| Sample I.D. | 24 Hour Composite Start Date | 24 Hour Composite Start time | Grab Sample Date | Grab Sample Time | LAB ID | Matrix | Number of Containers | Analysis Requested: Methanol | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inlet | | | 10/22/14 | 12:00 | | | 1 | X | | | | | | | | |
| Inlet | | | 10/22/14 | 11:55 | | | 1 | X | | | | | | | | |
| Outlet | | | 10/22/14 | 11:30 | | | 2 | X | | | | | | | | |
| Zone 1 | | | 10/22/14 | 12:50 | | | 2 | X | | | | | | | | |
| Zone 2 | | | 10/22/14 | 11:45 | | | 2 | X | | | | | | | | |
| Foul Condensate | | | 10/22/14 | 12:00 | | | 1 | X | | | | | | | | |
| Foul Condensate | | | 10/22/14 | 12:05 | | | 1 | X | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**TAT REQUIREMENTS**
___24 hr __ 48 hr __ 5 day
_X_ Standard (21 days)

**REPORT REQUIREMENTS**
_____X I. Routine Report

**Comments/Special Instructions:**
NCASI DI/Methanol - 94.03

| RELINQUISHED BY: | RECEIVED BY: | RELINQUISHED BY: | RECEIVED BY: |
|---|---|---|---|
| Signature: | Signature: | Signature: | Signature: |
| Printed Name: Brittany Park | Printed Name: Gary Beatty | Printed Name: Gary Beatty | Printed Name: |
| Firm: Georgia-Pacific | Firm: ALS | Firm: ALS | Firm: ALS |
| Date/Time: 10/23/2014 800hrs | Date/Time: 10/24/14 0925 | Date/Time: 10/24/14 1030 | Date/Time: 10/24/14 1030 |

PC JM

## Cooler Receipt and Preservation Form

Client / Project: Georgia Pacific Service Request K14 11946

Received: 10/24/14 Opened: 10/24/14 By: KO Unloaded: 10/24/14 By: KO

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* (*Courier*) *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA Y (N) If yes, how many and where?_____

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

| Raw Cooler Temp | Corrected Cooler Temp | Raw Temp Blank | Corrected Temp Blank | Corr. Factor | Thermometer ID | Cooler/COC ID (NA) | Tracking Number (NA) | Filed |
|---|---|---|---|---|---|---|---|---|
| 3.7 | 3.5 | 3.1 | 2.9 | -.2 | 337 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* (*Gel Packs*) *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

| Sample ID on Bottle | Sample ID on COC | Identified by: |
|---|---|---|
| | | |
| | | |
| | | |

| Sample ID | Bottle Count Bottle Type | Out of Temp | Head-space | Broke | pH | Reagent | Volume added | Reagent Lot Number | Initials | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

*Notes, Discrepancies, & Resolutions:*_____

*Page*____ *of*____

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/20/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Inlet 10/20 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-001 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **21** | | 0.50 | 0.17 | 1 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/20/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Outlet 10/20 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-002 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **0.25** | J | 0.50 | 0.17 | 1 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/20/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Zone 1 10/20 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-003 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **13** | | 0.50 | 0.17 | 1 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/20/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Zone 2 10/20 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-004 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **0.44** | J | 0.50 | 0.17 | 1 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/20/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Foul Condensate 10/20 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-005 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **1400** | D | 5.0 | 1.7 | 10 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/21/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Inlet 10/21 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-006 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **21** | | 0.50 | 0.17 | 1 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/21/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Outlet 10/21 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-007 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **0.37** | J | 0.50 | 0.17 | 1 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/21/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Zone 1 10/21 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-008 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **6.0** | | 0.50 | 0.17 | 1 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/21/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Zone 2 10/21 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-009 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | ND | U | 0.50 | 0.17 | 1 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/21/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Foul Condensate 10/21 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-010 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **1400** | D | 5.0 | 1.7 | 10 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/22/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Inlet 10/22 1200 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-011 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **27** | | 0.50 | 0.17 | 1 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/22/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Inlet 10/22 1155 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-012 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **28** | | 0.50 | 0.17 | 1 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/22/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Outlet 10/22 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-013 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | ND | U | 0.50 | 0.17 | 1 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/22/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

## Methanol

| | | | |
|---|---|---|---|
| **Sample Name:** | Zone 1 10/22 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-014 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **15** | | 0.50 | 0.17 | 1 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/22/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

## Methanol

| | | | |
|---|---|---|---|
| **Sample Name:** | Zone 2 10/22 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-015 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **0.26** | J | 0.50 | 0.17 | 1 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/22/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Foul Condensate 10/22 1200 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-016 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **1500** | D | 5.0 | 1.7 | 10 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | 10/22/2014 |
| **Sample Matrix:** | Water | **Date Received:** | 10/24/2014 |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Foul Condensate 10/22 1205 | **Units:** | ug/mL |
| **Lab Code:** | K1411946-017 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | **1600** | D | 5.0 | 1.7 | 10 | 11/06/14 | 11/07/14 | KWG1414971 | |

**Comments:**

**ALS Group USA, Corp. dba ALS Environmental**

Analytical Results

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1411946 |
| **Project:** | Wauna 4Q FC | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |

**Methanol**

| | | | |
|---|---|---|---|
| **Sample Name:** | Method Blank | **Units:** | ug/mL |
| **Lab Code:** | KWG1414971-4 | **Basis:** | NA |
| **Extraction Method:** | METHOD | **Level:** | Low |
| **Analysis Method:** | NCASI MeOH-94.03 | | |

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | ND | U | 0.50 | 0.17 | 1 | 11/06/14 | 11/06/14 | KWG1414971 | |

**Comments:**

## COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

**Client:** Georgia-Pacific Consumer Products LP
**Project:** Wauna 4Q FC
**Sample Matrix:** Water

**Service Request:** K1411946
**Date Collected:** 10/20/14
**Date Received:** 10/24/14
**Date Extracted:** 11/7/2014
**Date Analyzed:** 11/7/2014

Triplicate Summary
NCASI Triplicate MML Study

Sample Name: Outlet 10/20
Lab Code: K1411946-002
Test Notes:

Units: ug/mL
Basis: NA

| Analyte | Prep Method | Analysis Method | MRL | Sample Result | Duplicate Sample Result | Triplicate Sample Result | Average | Relative Standard Deviation | Result Notes |
|---|---|---|---|---|---|---|---|---|---|
| Methanol | METHOD | NCASI | 0.5 | 1.465 | 1.331 | 1.388 | 1.4 | 5 | |